

Anish Raj Garg

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EDUCATION

Heritage International Xperiential School (HIXS), Gurugram, India (http://hixs.org)	2019 – Present
– International Baccalaureate Diploma Program, Grade 12	2024 – Present
– Cambridge IGCSE Board Examinations, Grade 10	2022 – 2024

STANDARDIZED TESTS

SAT Score: Total – 1500; EBRW – 710; Math – 790	2025
IELTS Score: Overall: 8.5; Speaking-8.5; Listening-8.5; Writing-7.5; Reading-9	2025

ACADEMIC HONORS AND AWARDS

School:

- Academic Excellence in IBDP (top 5%): 40/42 IB Points in Grade 11 2025
- Academic Excellence in IGCSE Board Exams (top 10%): 6 A*s 2024

Global:

- CREST Global Awards: Developing an affordable Air Purifier – Gold 2025
- IRIS National Fair – National Finalist (top 120 in India – finals to be conducted) 2025 – 2026
- International Chemistry Quiz – Global Credit 2025
- John Locke Institute: Essay on Economics topic - Global Recognition 2025
- University of Waterloo: The Sir Issac Newton Exam – Global Distinction 2025
- University of Cambridge: Institute of Continuing Education – Global Distinction 2024
- University of Waterloo: Avogadro Exam Contest – Global Distinction 2025
- University of Waterloo: The Sir Issac Newton Exam – Global Distinction 2025
- University of Waterloo: The Hypatia Contest – Global Distinction 2025
- Breakthrough Junior Challenge: Demystifying Quantum Dots – Top 5% 2024
- F1 in Schools World Finals, Damam, Saudi Aramco – Global Sustainability 2024

CHEMISTRY RESEARCH AND EXPERIENCES

Research:

International Centre for Genetic Engineering and Biotechnology, Delhi (<http://icgeb.org>) 2025

ICGEB is an Intergovernmental Organisation dedicated to advanced research and training in molecular biology and chemistry

Summer Intern under Dr Syed Shams Yazdani, Group Leader Microbial Engineering Group

- Conducted comparative experimental analysis of ‘ β -glucosidase’ retention efficiency using different immobilization structures – iron nanoparticles and silica beads, with significant implications on reaction economics in multiple industrial applications
- Authored research paper, “Analysis of Enzyme Retention Using Immobilization Support for β -Glucosidase”
- Qualified for round 2 of S.T. Yau Research competition (<http://yauaward-asia.hk/>), IRIS National Fair (<https://www.irisnationalfair.org/>) and published under Springer
- Presented to Secretary, Ministry of Petroleum and Natural Gas, Government of India, nodal ministry for sustainable biofuels

Breakthrough Junior Challenge (<https://breakthroughjuniorchallenge.org/>), HIXS, India 2024

Breakthrough Challenge is an innovative concept that challenges high school students to explain a big scientific idea with a short video

- Researched Quantum Dots with their immense potential in medicine and electronics
- Won the top 5% global award basis the video submitted (<https://www.youtube.com/watch?v=sbHJYusBBG4>)

Online Courses:

- Our Energy Future, final grade of 87% in 4 week-online course, University of California San Diego 2025

Internship:

Air Pollution Action Group, Delhi, India (<https://a-pag.org/>) 2025-Present

A-PAG works with the national and state govt. as well as municipal bodies to assist their implementation efforts in fighting air pollution.

Intern under Ms. Reetoma Roy and Mr. Samarth Ayasya, Program Director

- Assisted A-PAG and MCG (Municipal Corporation of Gurugram) in improving waste tracking by organizing field data and preparing an analytical presentation for the Commissioner
- Researched AI-based image classification and route-optimization models to enhance waste management efficiency
- Reviewed and benchmarked A-PAG’s website and communication strategy, suggesting data-backed UI/UX improvements

Learning and Observations:

AquAgri, Delhi (<https://aquagri.in/>) 2025

AquAgri promotes seaweed farming in coastal communities and transforms the harvest into agricultural bioproducts

Trainee Under Mr. Abhiram Seth, CEO

- Studied the chemical process and R&D involved in converting seaweed into biostimulants, applying advanced chemical mechanisms
- Gained insights into circular economy practices and evaluated the economic feasibility of the process

Innovation:

Founder, Swachh Air Swachh India New Delhi, India (<http://swachhair.in/>) 2024

Founded an organization that developed an affordable air purifier using 3D-printing and HEPA filter technology

- Conceptualized, 3D-designed, and prototyped a cost-effective HEPA air purifier for personal use; awarded the CREST Global Gold Award
- Value-engineered and promoted two types of air purifiers for vulnerable groups: one designed for large classrooms and another for small offices. Reached 100+ people, secured 2+ sponsors, and initiated scaling to 500+ units across 10+ organizations.
- Conducted air quality awareness sessions and hands-on workshops for students on pollution control and clean-air solutions
- Designed marketing materials and social media campaigns to advocate for affordable clean-air access

STEM MENTORING

Plaksha University, India (<https://plaksha.edu.in/>)

May - June 2025

- Guided 60+ students at the Young Technology Scholars program, helping them design and construct projects
- Provided hands-on guidance in planning, prototyping, and problem-solving, fostering practical STEM skills and teamwork among participants
- Collaborated with Dr. Pant, Professor of Aerospace Engineering at IIT Bombay, as part of his mentorship team

IngeniX (IngeniX is the STEM Society at HIXS)

2024 – Present

- President, IngeniX, leading 90+ members across grades 9–12
- Organized three STEM competitions, leading teams to win national and international awards
- Increased outreach through expert sessions, communication and research initiatives

Entropy (Entropy is the STEM CAS Club at HIXS), HIXS, India

2024 – Present

- Leader of the STEM CAS Club at HIXS, guiding 15 members across grades 9–12
- Familiarized STEM concepts through hands-on experiments to inspire interest and engagement in STEM

Judge, STEMplify, India (<https://www.stemplify.com/stem-racing-india/>)

2025

- Served as a judge for the F1 in Schools Regional and National Finals 2025, evaluating teams on innovation, design, and engineering excellence
- Assessed Design and Engineering Portfolios, providing constructive feedback to support student learning and project improvement
- Contributed to fostering STEM skills, teamwork, and creativity through experience sharing

ACADEMIC ENRICHMENT

Harvard University

2024

Participated in the Harvard Summer School, taking a class called Math and Social Justice under Prof. Matt Cavallo, where we used math to explore issues like climate change, voting rights, and disinformation.

- Applied advanced mathematical concepts, including integration, to real-world social justice and economic issues
- Developed analytical, policy, and presentation skills through rigorous, project-based coursework

Plaksha University

2022

Participated in a two-week residential program focused on real-world engineering and problem-solving. Gained hands-on experience in applying technology to tackle complex, interdisciplinary challenges

- Designed and programmed a cost-effective electrocardiograph using Arduino Uno and electrodes, demonstrating hands-on engineering and prototyping skills

LEADERSHIP INITIATIVES

Advocacy Head, CAS (Creativity, Activity, Service) HIXS, India

2022 – 2024

- Selected from 100 students to serve as a key member of the Student Congress at HIXS, supporting the well-being of 350+ students and coordination with 60 staff members
- Responsible for communication, coordination, and planning, enhancing the quality and impact of CAS projects across the school

COMMUNITY OUTREACH

SRF Vidyalaya, Gurugram, India

2025

SRF Vidyalaya was founded in 2020 by to provide high-quality, affordable education, promoting personal growth and positive community impact

- Organized and conducted 50+ hours of STEM lessons for 6th-grade students, covering scientific concepts such as food, space, and energy
- Designed engaging, hands-on activities to foster curiosity and foundational understanding of STEM topics
- Created various models that culminated in multiple projects, including a healthy recipe book, a space diorama, and a forest model. Developed a magazine for leadership teams at SRF and HIXS that highlights our completed work and informs readers through structured activities.

MODEL UNITED NATIONS

Outstanding Delegate, Yale Model United Nations, New Delhi, India

2024

Best Strategist, Model UNESCO, Hong Kong

2024

WRITING AND PUBLICATIONS

Researcher, Institute of International Education, India

2023

Intern Under Mr. Vivek Mansukhani, Program Director

- Researched and wrote two papers on student mobility for education from India: analyzing trends, challenges, and opportunities in international study

SPORTS

2022 – 2024

- Badminton: Member of the High School Badminton Team